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CLAIMS

1. A low force electrical contact of the type in which a socket is provided that includes a plurality of times, each of said plurality of times adapted to extend radially away from a center, wherein the improvement comprises:

including with each of said plurality of times a patch proximate a tip, said patch having a thickness that is greater than an adjoining undercut portion.

2. A low force electrical contact of the type in which a socket is provided that includes a plurality of times, each of said plurality of times adapted to extend radially away from a center, wherein the improvement comprises:

forming at least a portion of each of said plurality of times from a high yield strength electrically conducting material and including with each of said plurality of times a portion proximate a tip, said portion having a thickness that is greater than an adjoining undercut portion.

3. A low force electrical contact of the type in which a socket is provided that includes a plurality of times, each

of said plurality of times adapted to extend radially away from a center, wherein the improvement comprises:

providing at each of said plurality of times a first stage proximate a base that includes a first inner diameter and a second stage that is disposed at the base at one end thereof and which extends therefrom to a distal end and where the second stage includes a second inner diameter at said one end thereof that is greater than the first inner diameter and wherein each of said plurality of times includes a patch proximate a tip, said patch having a thickness that is greater than an adjoining undercut portion.

- 4. A low force electrical contact, comprising:
 - (a) a socket;
 - (b) a plurality of times disposed in said socket, at least a portion of each of said times formed of a high yield strength of metal;
 - (c) means for receiving a pin in said socket, wherein said pin includes a first center longitudinal axis that

is not in parallel alignment with a second center longitudinal axis of said socket, and

- (d) means for connecting a wire to said socket.
- 5. The low force electrical contact of claim 4 wherein each of said times includes a first stage and a second stage, said first stage having a first wall thickness that is thicker than a second wall thickness of said second stage that is disposed proximate to said first stage and which extends therefrom toward a tip of each time.
- 6. The low force electrical contact of claim 4 wherein said means for receiving a pin in said socket includes providing an undercut portion in each of said times a predetermined distance from said tip.
- 7. The low force electrical contact of claim 6 wherein said undercut portion extends to said first stage.

- 8. The low force electrical contact of claim 6 wherein each of said times includes a patch of material that is adapted to contact a pin, said patch being disposed intermediate said tip and said undercut portion.
- 9. The low force electrical contact of claim 8 wherein said patch of material includes a greater thickness of material than said undercut portion.
- 10. The low force electrical contact of claim 8 wherein said patch of material includes an inside diameter that is less than an inside diameter of said undercut portion.
- 11. The low force electrical contact of claim 4 wherein each of said plurality of times is adapted to extend radially away from a center longitudinal axis.
- 12. The low force electrical contact of claim 7 wherein each of said plurality of times is adapted to make contact with said pin along a portion of the longitudinal length of each

of said plurality of times proximate a tip of each of said times when said pin is inserted into said socket.

- 13. The low force electrical contact of claim 4 wherein each of said plurality of times includes a set that is machined therein whereby a tip of each of said plurality of times is normally disposed closer to a center of said socket when said socket is not mated with a pin than is a second end of each of said plurality of times that is disposed distally from said tip.
- 14. The low force electrical contact of claim 4 wherein each of said plurality of times includes a first outside diameter that is proximate a tip and a second outside diameter that is greater than said first outside diameter, said second outside diameter being is disposed at a distal end from said tip, and wherein each of said plurality of times includes a progressive increase in the outside diameter from said tip to said distal end.
- 15. The low force electrical contact of claim 10 wherein said socket includes a hood having a predetermined inside

diameter that surrounds said plurality of tines, and wherein when a pin is mated inside of said socket, said plurality of tines extend radially outward a greater amount at said tip than at said distal end, and wherein a gap that exists intermediate said plurality of tines and said inside diameter of said hood is substantially identical along the longitudinal length of said plurality of tines.

- 16. The low force electrical contact of claim 4 wherein said means for receiving a pin in said socket is adapted to accommodate an angular misalignment of a first center longitudinal axis of said pin with respect to a second center longitudinal axis of said socket.
- 17. The low force electrical contact of claim 16 wherein said angular misalignment is equal to or less than three degrees in magnitude.